

eldes



WIRELESS LED KEYPAD

EKB3W

User Manual v1.4

Compatible with:

- ESIM364 all versions.
 - EPIR2 all versions.
- EPIR v05.06.02 and up + EWT2 v16.17 and up.

Main features:

- Alarm system arming & disarming;
- Stay mode activation & deactivation;
- System parameter configuration;
- PGM output control;
- Visual indication by LED indicators;
- Audio indication by built-in mini buzzer;
- Keypad partition switch (only for ESIM364)

EKB3W is a wireless LED keypad intended to use with ELDES alarm systems. The system configuration by EKB3W keypad is performed by activating the **Configuration Mode** and entering the required parameters & values. ELDES alarm systems allow to connect up to 4 EKB3W keypads.

NOTE: For complete system configuration & control using EKB3W keypad, please, refer to ELDES alarm system installation manual located at: www.eldes.lt/en/download

1. Package Content

1. EKB3Wqty. 1
2. User manualqty. 1
3. 5,6kΩ resistorqty. 1

2. Technical Specifications

2.1 Electrical & Mechanical Characteristics

| | |
|---|---|
| Battery Type | 1,5V Alkaline AAA type |
| Number of Batteries | 3 |
| Battery Operation Time | ~12 months* |
| Wireless Transmitter-Receiver Frequency | 868 Mhz |
| Range of Operating Temperatures | -30...+55°C |
| Dimensions | 140 x 100 x 18 mm |
| Wireless Communication Range | Up to 30 meters in premises; up to 150 meters in open areas |
| Compatible with Alarm Systems | ELDES Wireless |

* This operating time may vary in difference conditions.

2.2 LED Functionality

| | |
|--------|--|
| ARMED | Steady ON - alarm system is armed / exit delay in progres; flashing - Configuration mode activated |
| READY | Steady ON - system is ready – no violated zones and tamperers |
| SYSTEM | Steady ON - system faults; flashing - violated high-numbered zones |
| BYP5 | Steady ON - zone bypass mode |
| 1-12 | Steady ON - violated zone / flashing - violated tamper (only for EPIR/EPIR2) |

2.3 Keys Functionality

| | |
|-------------|--|
| [BYP5] | Zone bypass mode |
| [CODE] | System fault list / violated high-numbered zone indication / violated tamper indication (only for ESIM364) / violated high-numbered tamper indication (only for EPIR/EPIR2) |
| [*] | 1st character for Configuration mode activation/deactivation command (for ESIM364 up to v02.06.20; EPIR all versions; EPIR2 up to v1.01.08) / clear typed in characters / keypad partition switch (if enabled; only for ESIM364 up to v02.06.20) |
| [#] | Confirm (enter) command |
| [0] ... [9] | Command typing |
| [1]... [2] | Keypad partition switch (for ESIM364 v02.07.00 and up) |
| [STAY] | Manual Stay mode activation |
| [INST] | 1st character for Configuration mode activation/deactivation command (for EPIR2 v1.01.11 and up; ESIM364 v02.07.00 and up) |

2.4 Main Unit & Connector Functionality

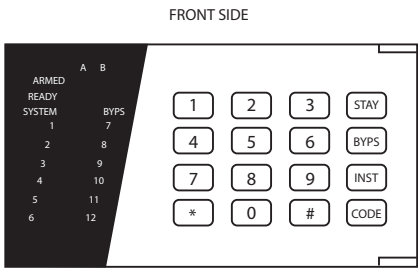


Fig. No. 1

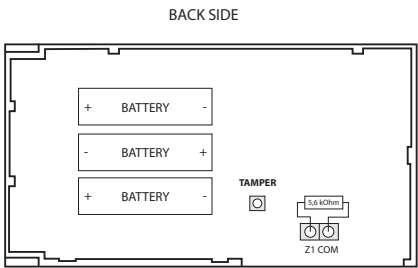


Fig. No. 2

| | |
|--------|--|
| TAMPER | Tamper-switch for EKB3W sabotage detection |
| + / - | Battery slots |

| | |
|-----|------------------------|
| COM | Common terminal |
| Z1 | Security zone terminal |

3. Installation

1. Detach keypad holder from EKB3W front side . Keypad holder detach points are marked with arrows (see Fig. No. 3).

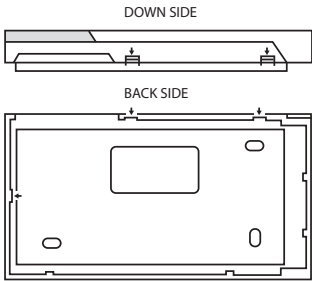
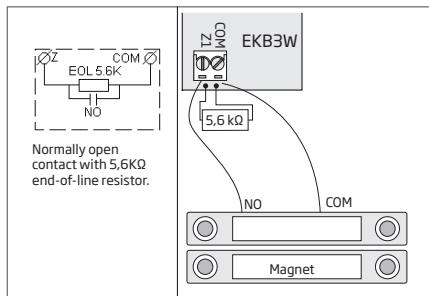


Fig. No. 3

2. Fix the keypad holder on the wall using the screws.

3. Connect a sensor and the resistor across **Z1** and **COM** terminals in accordance with zone connection Type 1 or Type 2 (see Fig. No. 4). As keypad zone Z1 is disabled by default, it can be enabled by SMS text message, *ELDES Configuration Tool* software, EKB2 (only for ESIM364), EKB3 (only for ESIM364) and EKB3W keypad. Keypad zone Z1 must be enabled and resistor connected even if the tamper-switch alone is required (see Fig. No. 2).

Type 1 Example of magnetic door contact wiring



Type 2 Example of magnetic door contact wiring

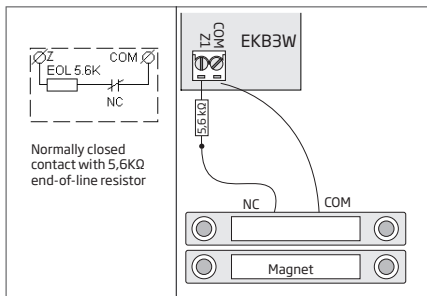


Fig. No. 4

4. Remove the plastic tab inserted between one of the battery terminals and battery slot contacts (see Fig. No. 5).

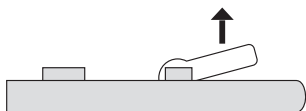


Fig. No. 5

ATTENTION! Before fixing the keypad into the holder, please, make sure that the tamper is properly pressed (see Fig. No. 2).

5. Bind the device to the alarm system using *ELDES Configuration Tool* software. Open **Wireless Device Management** section and enter a 8-digit wireless device ID located on the EKB3W enclosure and press **Add** button (see Fig. No. 6). The device can also be bind by sending a corresponding command via SMS message. For more details, please, refer to the software's **HELP** section and ELDES alarm system installation manual.



Fig. No. 6

7. Upon the successful binding process, the built-in mini buzzer of EKB3W device provides 3 short beeps and EKB3W icon, **Battery Level** and **Signal Level** becomes visible in *ELDES Configuration Tool* software's **Wireless Device Management** section. If attempt to bind is unsuccessful, try to move EKB3W closer to the alarm system device and bind anew.
8. EKB3W keypad is ready for use.

NOTE: If you are unable to bind the wireless device, please, restore the parameters of the wireless device to default and try again. See chapter **6. Restoring Default Parameters** for more details.

4. EKB3W Zone & Tamper

Upon successful EKB3W wireless LED keypad contact binding process, the system adds 1 wireless *Instant* zone intended for wired sensor connection. In case of tamper violation, the alarm is caused regardless of system being armed or disarmed. There are 2 ways to detect tamper violation on EKB3W:

- **By tamper-switch.** EKB3W has a built-in tamper-switch intended for monitoring the enclosure status. Once the enclosure of EKB3W tampered, the tamper-switch becomes triggered. This action is followed by alarm which is sent by SMS message and phone call to the user (-s) by default. The SMS message contains the violated tamper number.
- **By wireless connection loss.** The wireless connection loss between EKB3W and ELDES alarm system leads to alarm. The system identifies this event as a tamper violation and sends alarm by SMS message and phone call to the user (-s) by default. The SMS message contains the violated tamper number and a star * character indicating wireless connection loss as a tamper alarm cause.

ATTENTION: The tamper will not operate if the wireless zone is disabled.

5. Battery Replacement

1. Open EKB3W enclosure.
2. Remove all 3 old batteries from the battery slots.
1. Position the 3 new 1,5V alkaline AAA type batteries according to the appropriate battery slot positive/negative terminals indicated on the PCB (printed-circuit-board) of EKB3W.
2. Insert the batteries into the battery slots.
3. Batteries replaced.

See chapter **3. Installation** for more details.

ATTENTION: Only 1,5V Alkaline AAA type batteries can be used. Install only new, high quality and unexpired batteries. Do not mix the old batteries with the new ones.

ATTENTION: At least 1 battery must be removed if the device is not in use.

ATTENTION: In order to avoid fire or explosion hazards, the system must be used only with approved battery. Special care must be taken when connecting positive and negative battery terminals. Dispose old batteries only into special collection sites. Do not charge, disassemble, heat or incinerate old batteries.

NOTE: The system sends an SMS text message to a preset user phone number as soon as the battery level runs below 5%.

NOTE: The battery status can be monitored in real-time using *ELDES Configuration Tool* software.

6. Restoring Default Parameters

1. Remove one battery from EKB3W.
2. Press and hold the [*] key.
3. Insert the battery back to EKB3W.
4. Hold the [*] key until LED **READY** starts flashing.
5. Wait until LED **READY** turns off and LED **ARMED** starts flashing.
6. Release the [*] key.
7. Parameters reset to default.

7. Additional Information

Limited Liability

The buyer must agree that the system will reduce the risk of fire, theft, burglary or other dangers but does not guarantee against such events. "ELDES UAB" will not take any responsibility regarding personal or property or revenue loss while using the system. "ELDES UAB" liability according to local laws does not exceed value of the purchased system. "ELDES UAB" is not affiliated with any of the Internet providers therefore is not responsible for the quality of Internet service.

Manufacturer Warranty

This device carries a 24-month warranty by the manufacturer "ELDES UAB". Warranty period starts from the day the system has been purchased by the end user. The warranty is valid only if the system has been used as intended, following all guidelines listed in the manual and within specified operating conditions. Receipt must be kept as a proof of purchase date. The warranty is voided if the system has been exposed to mechanical impact, chemicals, high humidity, fluids, corrosive and hazardous environment or other force majeure factors.

Safety instructions

Please read and follow these safety guidelines in order to maintain safety of operators and people around:

- DO NOT use the system where it can be interfere with other devices and cause any potential danger.
- DO NOT use the system with medical devices.
- DO NOT use the system in hazardous environment.
- DO NOT expose the system to high humidity, chemical environment or mechanical impacts.
- DO NOT attempt to personally repair the system.



The WEEE (Waste Electrical and Electronic Equipment) marking on this product (see left) or its documentation indicates that the product must not be disposed of together with household waste. To prevent possible harm to human health and/or the environment, the product must be disposed of in an approved and environmentally safe recycling process. For further information on how to dispose of this product correctly, contact the system supplier, or the local authority responsible for waste disposal in your area.

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